

June 7, 2018

## MEMORANDUM

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

From: Barbara Coughlin, PhD *Barbara R. Coughlin*

Subject: Progress Report No. 313  
May 1 through May 31, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

## PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Submitted *Institutional Control Implementation and Assurance Plan (ICIAP), Revision 1, Midco I Site, Gary, Indiana* to Pablo Valentin, USEPA from Tat Ebihara, AECOM. Dated May 2018.
- Submitted a letter from Bruce White, Midco Remedial Corporation (MRC) to Andrew Greenhagen, USEPA regarding Midco Waste Disposal Well No. 1 - Status Update, Midco I and II Superfund Sites, Gary, Indiana. Dated May 22, 2018.
- Received a letter from Pablo Valentin, USEPA from Tat Ebihara, AECOM, regarding Technical Review Comments on Technical Memorandum - Extent of Free Product in the vicinity of Monitoring Well Z-10, Midco II Site, Gary, Indiana. Dated May 29, 2018.

## MIDCO DEEP INJECTION WELL OPERATING CONDITIONS

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
May	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of May 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING JUNE 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

July 9, 2018

**MEMORANDUM**

**To:** Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

**From:** Barbara Coughlin, PhD *Barbara R. Coughlin*

**Subject:** Progress Report No. 314  
June 1 through June 30, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

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JUL 20 2018

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**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Submitted a letter from Barbara Coughlin, Ramboll to Pablo Valentin, USEPA regarding Revised Technical Memorandum – Extent of Free Product in the Vicinity of Monitoring Well Z-10, Midco II Site, Gary, Indiana. Dated June 15, 2018.
- Submitted report entitled *Monitored Natural Attenuation, Groundwater Remedy Demonstration, Midco I and II, Gary, Indiana* to Pablo Valentin, USEPA from Shannon Flanagan, AECOM. Dated June 2018.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
June	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of June 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING JULY 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

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August 9, 2018

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

From: Barbara Coughlin, PhD *Barbara R. Coughlin*

Subject: Progress Report No. 315  
July 1 through July 31, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Submitted report entitled *Institutional Control Implementation and Assurance Plan (ICIAP), Midco II, Gary, Indiana* to Pablo Valentin, USEPA from Shannon Flanagan, AECOM. Dated July 2018.
- Submitted a letter from Bruce White, Midco Remedial Corporation (MRC) to Pablo Valentin, USEPA regarding Midco - Change of Project Engineer. Dated July 17, 2018.
- Received letter from Pablo Valentin, USEPA to Shannon Flanagan, AECOM regarding Notification of the Fifth Five Year Review Start for the Midco I and Midco II Superfund Sites; Gary, Lake County, Indiana. Dated July 25, 2018.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
July	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

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AUG 14 2018

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#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of July 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING AUGUST 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

September 6, 2018

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

From: Barbara Coughlin, PhD *Barbara R. Coughlin*

Subject: Progress Report No. 316  
August 1 through August 31, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
August	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

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SEP 12 2018

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#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of August 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING SEPTEMBER 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

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SEP 12 2018

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October 5, 2018

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

From: Barbara Coughlin, PhD *Barbara R Coughlin*

Subject: Progress Report No. 317  
September 1 through September 30, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Received letter from Pablo Valentin, USEPA to Barbara Coughlin, Ramboll regarding "Approval of the Revised Technical Memorandum - Extent of Free Product in the Vicinity of Monitoring Well Z-10 for the Midco II, Superfund Site; Gary, Lake County, Indiana. Dated September 10, 2018.
- Received letter from Pablo Valentin, USEPA to Shannon Flanagan, AECOM regarding "Review Comments on the June 2018 Midco I and II Monitored Natural Attenuation Groundwater Remedy Demonstration for the MIDCO I (EPA ID IND980615421) and MIDCO II (EPA ID IND980679559) Superfund Sites, Gary, Lake County, Indiana. Dated September 11, 2018.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
September	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

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OCT 15 2018

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#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of September 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING OCTOBER 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

November 8, 2018

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

From: Barbara Coughlin, PhD *Barbara R Coughlin*

Subject: Progress Report No. 318  
October 1 through October 31, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Conducted Midco I and Midco II Five-Year Review site visits on October 16, 2018. Representatives of USEPA, Indiana Department of Environmental Management (IDEM), and AECOM participated.
- Conducted Midco Deep Well inspection on October 25, 2016. Representatives of USEPA and Ramboll participated.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
October	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

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NOV 30 2018

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#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of October 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING NOVEMBER 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

December 7, 2018

**MEMORANDUM**

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

From: Barbara Coughlin, PhD *Barbara R. Coughlin*

Subject: Progress Report No. 319  
November 1 through November 30, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

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DEC 14 2018

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**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Submitted letter from Bruce White, Midco Remedial Corporation to Tom Turner, USEPA regarding "Midco Waste Disposal Well No. 1 – Request to Approve Closure, Midco I and II Superfund Sites, Gary, Indiana". Dated November 19, 2018.
- Submitted letter and report from Shannon Flanagan and Shankar Subramanian, AECOM to Pablo Valentin, USEPA regarding "Monitored Natural Attenuation (MNA) Groundwater Remedy Demonstration, Revision 1 and Response to U.S. EPA Comments Letter, dated September 11, 2018; Midco I and Midco II Sites, Gary, Indiana". Dated November 26, 2018.
- Submitted letter from Lisa McCoy, Indiana Department of Environmental Management (IDEM) to Thomas Turner, USEPA regarding "Indiana Department of Environmental Management, Acknowledgement of Enforceability of Deed Restrictions, MIDCO 1 Superfund Site, Gary, Indiana". Dated November 30, 2018.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
November	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of November 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING DECEMBER 2018**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.

January 9, 2019

**MEMORANDUM**

**To:** Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice

**From:** Barbara Coughlin, PhD *Barbara R. Coughlin*

**Subject:** Progress Report No. 320  
December 1 through December 31, 2018  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

**PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE**

- Continued shutdown of the Midco I and II ground water extraction and treatment systems (GWETS) as part of the shutdown period approved by United States Environmental Protection Agency (USEPA).
- Submitted letter from Lisa McCoy, Indiana Department of Environmental Management (IDEM) to Thomas Turner, USEPA regarding "Indiana Department of Environmental Management, Acknowledgement of Enforceability of Deed Restriction, MIDCO II Superfund Site, Gary, Indiana". Dated December 4, 2018.

**MIDCO DEEP INJECTION WELL OPERATING CONDITIONS**

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and II Sites' ground water treatment system (GWTS) are presented on Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented on Figure 3. The daily sight glass levels are shown on Figure 4.
- Total volume of treated water injected (in gallons):

	Midco I Site	Midco II Site	Deep Well Site
December	0	0	0
Year-to-Date	0	0	0
Total-to-Date	174,050,592	241,783,508	415,834,100

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

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FEB 11 2019

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#### **SYSTEM SHUTDOWNS**

- Details of the Midco I and II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I and II Sites had no non-GWETS-related shutdowns.

#### **SAMPLING AND TEST RESULTS**

- No validated analytical results were received during the month of December 2018.

#### **PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN**

- None during this reporting period.

#### **ACTIVITIES TO BE CONDUCTED DURING JANUARY 2019**

- Continue the shutdown of the Midco I and II Sites' GWETS.

#### **PERCENT OF COMPLETION OF THE RD/RA**

- |  |             |
|--|-------------|
| • RD/RA Project Plans                            | 100%        |
| • Underground Injection Well Application Package | 100%        |
| • Investigation and Monitoring Activities        | 100%        |
| • Remedial Design of GWETS                       | 100%        |
| • Remedial Action                                | see Table 3 |

#### **PROBLEMS ENCOUNTERED AND THEIR SOLUTION**

- None.